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ROBERT RHODES
LARRY L. COATS
DAVID E. BENNETT
EDWARD W. RILEE
HOWARD A. MacCORD, JR.
JACK B. HICKS
WILLIAM J. MASON
JAMES L. LESTER
JEFFREY R. McFADDEN
DAVID D. BEATTY
BENJAMIN S. WITHROW
CLINTON H. HALLMAN, JR.
(Admitted to Va. only)
GILBERT J. ANDIA, JR.
JOHN R. OWEN
DAVID D. KALISH

RHODES, COATS & BENNETT, L.L.P.

ATTORNEYS AT LAW
909 GLENWOOD AVE.
POST OFFICE BOX 5
RALEIGH, NORTH CAROLINA 27602
(919) 832-3946
FAX (919) 831-9056

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FAX (910) 763-2386

VIA EXPRESS MAIL LABEL NO. EM284185386US

BOX PATENT APPLICATION

Honorable Commissioner of Patents
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Washington, D.C. 20231

RE: U.S. Patent Application
Inventor: Nils R.C. Rydbeck and John Fussell
**CELLULAR PHONE WITH EXPANSION MEMORY FOR AUDIO
AND VIDEO STORAGE**

Dear Sir:

Enclosed please find the above-identified U.S. Patent Application which includes the following:

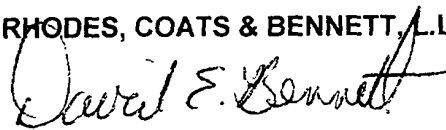
1. Specification and Claims
2. Formal Drawings (3 sets of 7 sheets)
3. Declaration and Power of Attorney for Patent Application
4. **Express Mail Certification - Label No. EM284185386US**
5. Postcard

Also enclosed please find our check in the amount of **\$790.00** to cover the Government Filing Fee and recordation of the Assignment. If fees are not sufficient, please deduct from the Rhodes, Coats & Bennett, L.L.P. Deposit Account No. 18-1167.

Respectfully submitted,

RHODES, COATS & BENNETT, L.L.P.

By:



David E. Bennett
Registration No. 32,194

DEB/kls
Enclosures
P-4015.100

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Application of:)
)
Nils R.C. Rydbeck and John Fussell)
)
Serial No. _____)
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Filed: _____)
)
For: **CELLULAR PHONE WITH EXPANSION**)
MEMORY FOR AUDIO AND VIDEO)
STORAGE)
)
Attorney's Docket No. P-4015.100)

Express Mail Certification
Label No. EM284185386US

Raleigh, North Carolina

February 18, 1998

Honorable Commissioner of Patents and Trademarks
BOX PATENT APPLICATION
Washington, D.C. 20231

Sir:

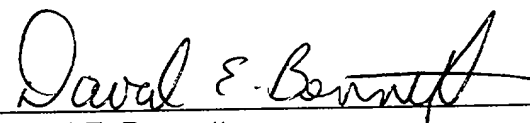
EXPRESS MAIL CERTIFICATE LABEL NO. EM284185386US
DATE MAILED: February 18, 1998

I hereby certify that the enclosed specification, drawings (7 sheets), Declaration and Power Of Attorney, Assignment, and our Check # 13044 in the amount of \$790.00, are being deposited with the United States Postal Service "Express Mail Post Office to Addressee" service under 37 C.F.R. §1.10 on the date indicated above and is addressed to Honorable Commissioner of Patents and Trademarks, BOX PATENT APPLICATION, Washington, D.C. 20231.

Respectfully submitted,

RHODES, COATS & BENNETT, L.L.P.

By:


David E. Bennett
Registration No. 32,194

Telephone: (919) 832-3946

Date Mailed: February 18, 1998

UNITED STATES PATENT APPLICATION FOR GRANT OF LETTERS PATENT

**NILS R.C. RYDBECK
JOHN FUSSELL
INVENTORS**

CELLULAR PHONE WITH EXPANSION MEMORY FOR AUDIO AND VIDEO STORAGE

RHODES, COATS & BENNETT, L.L.P.

909 Glenwood Avenue

P.O. Box

Raleigh, NC 27602

(919) 832-3946

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CELLULAR PHONE WITH EXPANSION MEMORY FOR AUDIO AND VIDEO STORAGE

FIELD OF THE INVENTION

The present invention relates generally to mobile communication devices, and more particularly to portable radio communication devices having an integral entertainment module including RAM or ROM for storing audio, video and/or still images.

BACKGROUND OF THE INVENTION

In the past two decades, advances in digital electronic technology have led to a rapid growth in the area of entertainment oriented consumer electronic devices. In particular, portable electronic devices such as audio CD players, FM/AM radio receivers, and even television or video tape/disc players have become increasingly popular among consumers as they have become small, lightweight, and easy for an individual to carry.

While quite popular with consumers, the mass storage type devices (audio CD, video tape/disc) typically suffer from motion induced distortion otherwise known as bouncing or skipping. These problems arise, in part, as a result of the required motion of the mass storage medium during normal operation. That is, in the case of an audio CD or a video disc, the disc which comprises the storage medium is typically spun or rotated at a relatively high speed while the information stored on the disc is read by an associated read head. Proper and precise alignment of the read head with respect to the spinning storage medium must be maintained at all times in order to insure error free reading of the stored data. Such precise alignment is often difficult to maintain

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this application, memory means all forms of computer memory but does not include disk storage, tape storage or other memory requiring electromechanical read systems. The memory may be in the form of a removable ROM cartridge and/or an expansion RAM. In those embodiments having an expansion RAM, an input port is provided for loading music or other audio signals into the expansion RAM from a CD player, computer, or other source of digitized audio.

Under the control of the transceiver unit's microprocessor, the digitally stored audio signal is played out through the telephone's headset, which in the preferred embodiment comprises stereo headphones. The headset may be connected to the phone by a wired or wireless link. Because of its integration into the cellular phone, the digital entertainment module can share components already present in the cellular phone. Such savings would not be available if a CD player were simply aggregated with the phone. Further, the use of solid state RAM or ROM, as opposed to disc storage, eliminates the need for bounce control circuitry. This enables the disclosed invention to provide cellular communications and entertainment during leisure activities.

In another aspect of the present invention, the digital entertainment module could be located in a removable battery pack which attaches to the transceiver unit, or in a separate adapter which plugs into the transceiver unit. Locating the digital entertainment module in either a battery pack or separate adapter allows the manufacturer to offer the digital entertainment module as an optional accessory which does not need to be purchased at the same time the cellular phone is purchased. This allows consumers who purchase a phone without the digital entertainment module to later purchase the battery pack or adapter as an upgrade to the existing phone.

BRIEF DESCRIPTION OF THE DRAWINGS

Figure 1 is a perspective view of the portable communication device of the present invention.

Figure 2 is a block diagram of the portable communication device.

Figure 3 is a block diagram of the entertainment module contained in the portable communication device.

Figure 4 is a perspective view of a second embodiment of the portable communication device in which the digital entertainment module is located in a removable battery pack.

Figure 5 is a block diagram showing the second embodiment of the portable communication device in which the entertainment module is located in a removable battery pack.

Figure 6 is a perspective view of a third embodiment of the portable communication device in which the digital entertainment module is located in a separate adapter with attaches to the transceiver unit.

Figure 7 is a block diagram showing the third embodiment of the portable communication device in which the entertainment module is located in a separate adapter.

DETAILED DESCRIPTION OF THE INVENTION

Referring now to the drawings, and particularly to Figures 1 through 3, the cellular phone of the present invention is shown therein and indicated generally by the numeral 10. The cellular phone 10 of the present invention is particularly adapted for use during leisure activities such as jogging, hiking, gardening, etc.

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The cellular phone 10 includes a transceiver unit 12 and a headset 40 which can be worn on the head by the user. The transceiver unit 12 includes a main housing 14 and a removable battery pack 16 containing a rechargeable battery 28. Housing 14 of the transceiver unit 12 contains an RF transceiver 18, control logic 20, program memory 22, and audio processing unit 24 which are operatively connected by a system bus 26. The RF transceiver 18 may be, for example, a class 1 mobile phone transceiver capable of transmitting and receiving radio signals containing voice and/or data. Audio processing unit 24 processes voice and data signals that are transmitted and received by the transceiver 18. Audio processing unit 24 may include voice recognition circuitry to enable activation and use of the phone 10 by voice commands for truly hands-free operation. The control logic 20 controls the operation of the transceiver 18 according to instructions stored in program memory 22. A keypad 30 and display 32 provide a user interface. Keypad 30 enables the user to enter dialing instructions and commands to initiate a call, and to select options. The display 32 displays the number dialed and call status information to the user. Display 32 may also display instructions or options to the user. Unlike a conventional cellular phone, the transceiver unit 12 of the present invention does not include an internal microphone and speaker, though such is within the scope of the contemplated invention.

The headset 40 includes stereo speakers 42 and microphone 44 that are connected to the transceiver unit 12 by a cable 46. Cable 46 may include a plug (not shown) which removably mates with a corresponding jack on the transceiver unit 12. The cable 46 connects to the system bus 26 which routes audio signals from the audio processing unit 24 to and from the headset 40 under the control of the microprocessor

20. The jack could also connect directly to audio processing circuit 24. Alternatively, the headset 40 could communicate wirelessly with the transceiver unit 12, for example, by means of an infrared carrier, low power RF carrier or magnetic link.

The portable telephone 10 of the present invention includes a built-in digital entertainment module 50 (DEM) which allows music or other audio signals to be "played-back through the cellular telephone's headset 40. The entertainment module 50 includes extended RAM and/or removable memory cartridges for storing music or other audio signals which can be played back through the headset 40 of the phone 10.

Referring now to Figure 3, a schematic diagram of the digital entertainment module 50 is shown. The digital entertainment module 50 includes a secondary bus 52, extended random access memory (RAM) 54, removable ROM 56, and an input 58. The extended RAM 54 may, for example, be a flash EPROM chip capable of storing digitized audio. Digitized audio is loaded into the flash EPROM via input 58. The input 58 may be a serial port, parallel port, infra-red data port, modem, or any other type of input device capable of interfacing with a source of digitized audio, such as a CD player, or computer. It is also contemplated that audio may be obtained from the transceiver unit 12 in an "internet-enabled" phone 10. The removable ROM 56 is preferably in the form of a cartridge which fits into a slot in the transceiver unit 12. The ROM cartridge 54 would contain pre-recorded music which could be purchased by the user. In the preferred embodiment, the data format of both the extended RAM 54 and removable ROM 56 would be organized according to CD-ROM standards, which is 14 bits per sample and 44.1 k samples per second.

The transceiver unit 12 includes a transceiver 18, microprocessor 20, program memory 22, audio processing circuits 24, keypad 30, and display 32. In addition, the transceiver unit 12 in the third embodiment includes an internal microphone and speaker 34 and 36 respectively. Thus, the transceiver unit 12 can be used without the headset 40.

The headset 40 includes a pair of stereo speakers 42 and microphone 44. The headset 40 is connected by a cable 46 to the adapter 70. The entertainment module 50 is contained in the adapter 70. The adapter 70 includes a secondary bus 72 which connects to the main bus 26 on the transceiver unit when the adapter 70 is plugged into the transceiver unit 12. An input/output circuit 74 routes audio signals to and from the headset 40.

When the transceiver unit 12 is used without the adapter 70, audio signals are routed under the control of the microprocessor from the audio processing circuits 24 to the internal microphone and speaker 34 and 36. When the adapter 70 is plugged into the transceiver unit 12, the audio signals are routed to the microphone 44 and speakers 42 on the headset 40.

The configuration of the phone 10 shown in Figures 6 and 7 is advantageous in that it allows the transceiver unit 12 to be sold without the digital entertainment module 50 and later upgraded by the consumer. The adapter 70 and headset 40 could be sold separately as an accessory or at a later time as an upgrade. Thus, a single phone could be manufactured for use both with and without the digital entertainment module 50.

It will be apparent to those skilled in the art that the digital entertainment module 50 could also be used to store video or still images which could be output to the display

32 of the transceiver unit 12. Any sound accompanying the video would be played back through the headset 40 or internal speaker. It should also be apparent that the digital entertainment module 50 could include a broadcast receiver for receiving conventional radio and TV broadcasts in addition to its entertainment memory.

The present invention may, of course, be carried out in other specific ways than those herein set forth without departing from the spirit and essential characteristics of the invention. The present embodiments are, therefore, to be considered in all respects as illustrative and not restrictive, and all changes coming within the meaning and equivalency range of the appended claims are intended to be embraced therein.

CLAIMS

What is claimed is:

1. A mobile radio communication device comprising:
 - a. a transceiver unit for transmitting and receiving audio signals;
 - b. a speaker operatively connected to said transceiver unit for converting audio signals received by said transceiver unit into audible signals which can be heard by a user;
 - c. a microphone operatively connected to said transceiver unit for converting the user's voice into audio signals for transmission by said transceiver;
 - d. memory operatively connected to said transceiver unit for storing pre-recorded audio for subsequent playback through said speaker.
2. The mobile radio communication device according to claim 1 wherein said memory is an erasable memory.
3. The mobile radio communication device according to claim 1 wherein said memory is an unerasable memory.
4. The mobile radio communication device according to claim 1 wherein said memory is contained in said transceiver unit.

5. The mobile radio communication device according to claim 1 further including a removable cartridge insertable into said transceiver unit, wherein said memory is contained in said removable cartridge.

6. The mobile radio communication device according to claim 1 further including a removable battery pack attachable to said transceiver unit, said memory being located in said battery pack.

7. The mobile communication device according to claim 1 further including a detachable adapter for attaching to said transceiver unit, said memory being located in said adapter.

8. The mobile radio communication device according to claim 1 further including a headset, wherein said speaker and microphone are mounted to said headset.

9. The mobile radio communication device according to claim 1 further including a input port operatively connected to said memory for loading audio into said memory.

10. The mobile radio communication device of claim 1 further including a screening memory in communication with said transceiver for storing a list of preferred callers and wherein when an incoming call is received during playback of said pre-recorded audio, playback continues unless said incoming call is from a caller on said list of preferred callers.

11. A cellular telephone having an entertainment module for playing pre-recorded audio and video signals comprising:

- a. a transceiver for transmitting and receiving audio and data signals;
- b. a microprocessor for controlling the operation of said transceiver;
- c. a signal processing circuit operatively connected to the transceiver and microprocessor for processing signals transmitted and received by the transceiver; and
- d. an entertainment module with a memory operatively connected to the microprocessor and signal processing circuits for storing audio and video signals for subsequent playback under the control of said microprocessor.

12. The cellular telephone of claim 11 wherein said memory comprises an erasable and programmable memory for storing and playing audio and video signals.

13. The cellular telephone of claim 12 including an input coupled to the erasable and programmable memory for downloading and storing audio and video signals into said erasable and programmable memory.

14. The cellular telephone of claim 11 wherein said memory comprises a permanent memory which is removable from said cellular telephone for storing and playing audio and video signals.

15. The cellular telephone of claim 11 wherein the entertainment module includes a first memory which is programmable and erasable, an input coupled to said first memory for downloading and storing audio and video signals into said first memory, and a second permanent memory having pre-recorded audio and video signals stored therein.

16. The cellular telephone according to claim 15 wherein said second memory is a removable and interchangeable memory cartridge.

17. The cellular telephone of claim 11 wherein the first and second memories are coupled to a headset port in the cellular telephone, thereby permitting audio signals to be directed from the memories to a headset coupled to the cellular telephone via the headset port.

18. The cellular telephone of claim 11 wherein the microprocessor is pre-programmed to preempt output from said first and second memories in response to an incoming call or the initiation of an outgoing call.

19. The cellular telephone of claim 11 further including a screening memory in communication with said microprocessor for storing a list of preferred callers and wherein said output from said first and second memories is not preempted in response to an incoming call unless said incoming call is from a caller on said list of preferred callers.

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ABSTRACT OF THE DISCLOSURE

A cellular telephone includes an internally integrated digital entertainment module. The telephone includes a transceiver unit and a headset which is connected to the transceiver unit by wired or wireless link. The entertainment module includes an interchangeable ROM and/or expansion RAM for storing music or other audio signals for playback through the telephone's headset. Music or other audio signals in digitized form is stored in the interchangeable ROM or is loaded into the expansion RAM from a CD player, computer, or other source of digitized audio signals. Under control of the cellular telephone's microprocessor, the digitally stored audio signal is played back through the telephone's headset. The entertainment module may be located in the transceiver unit, a removable battery pack, or in a separate adapter.

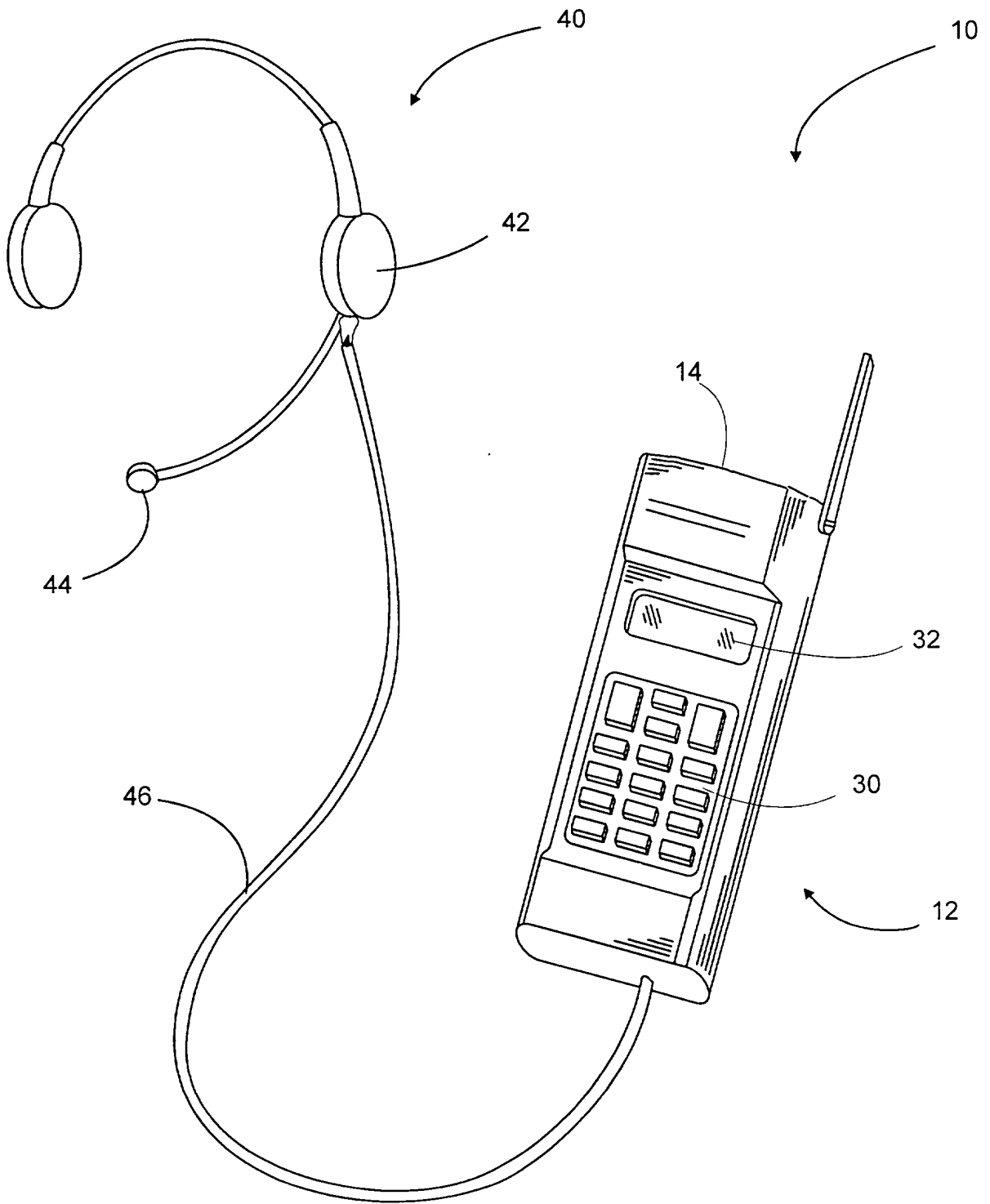


FIG. 1

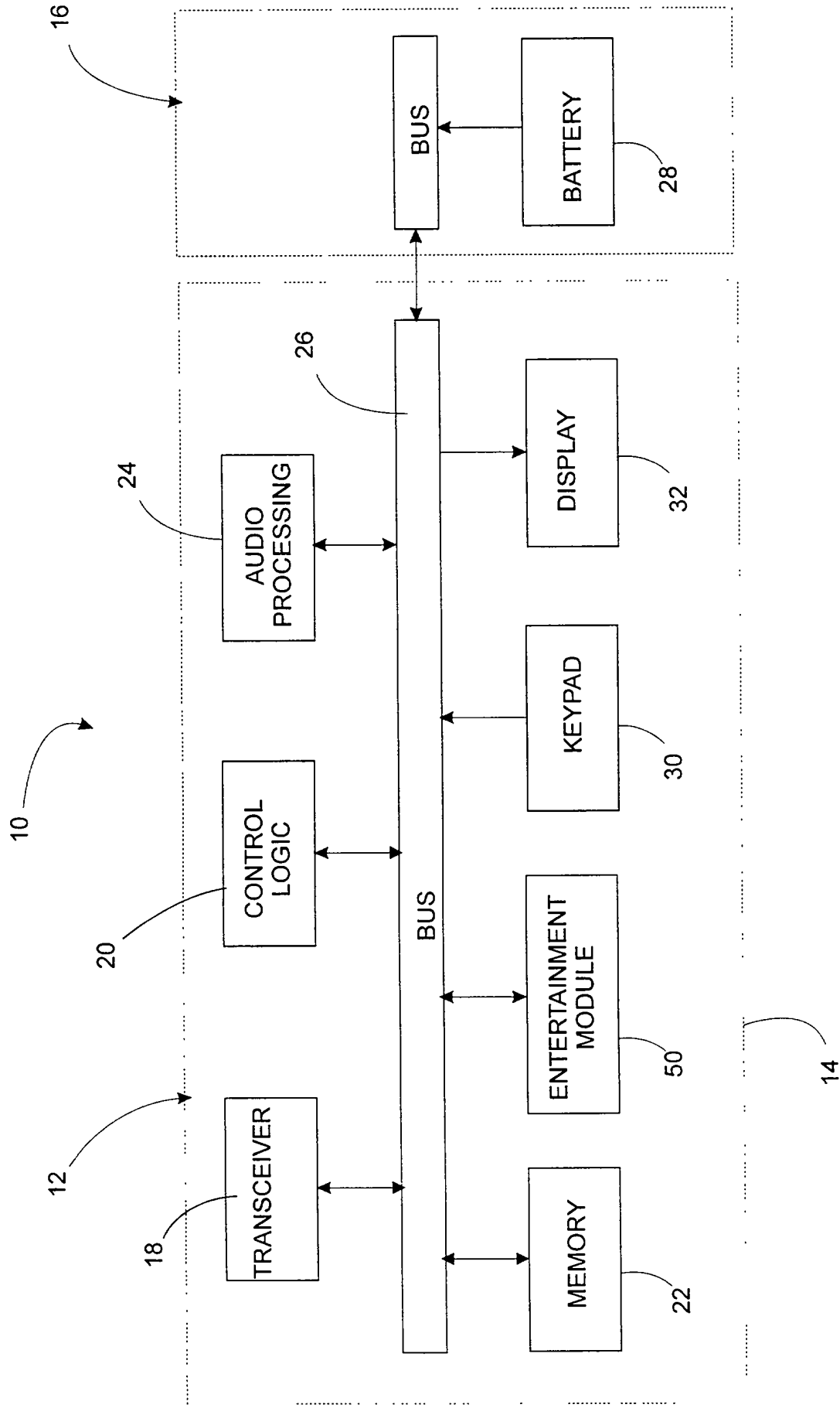


FIG. 2

Patent 5,552,060

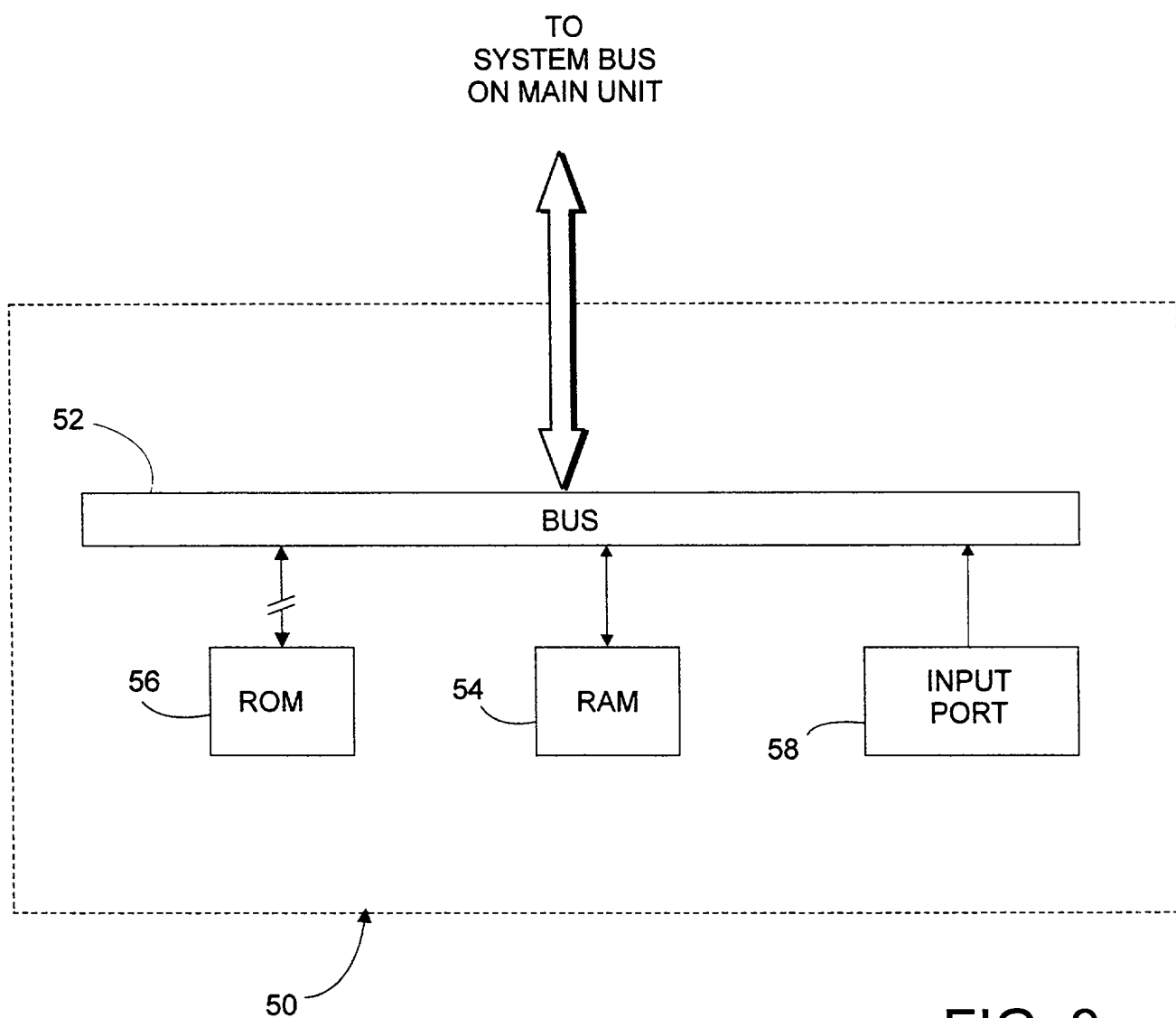


FIG. 3

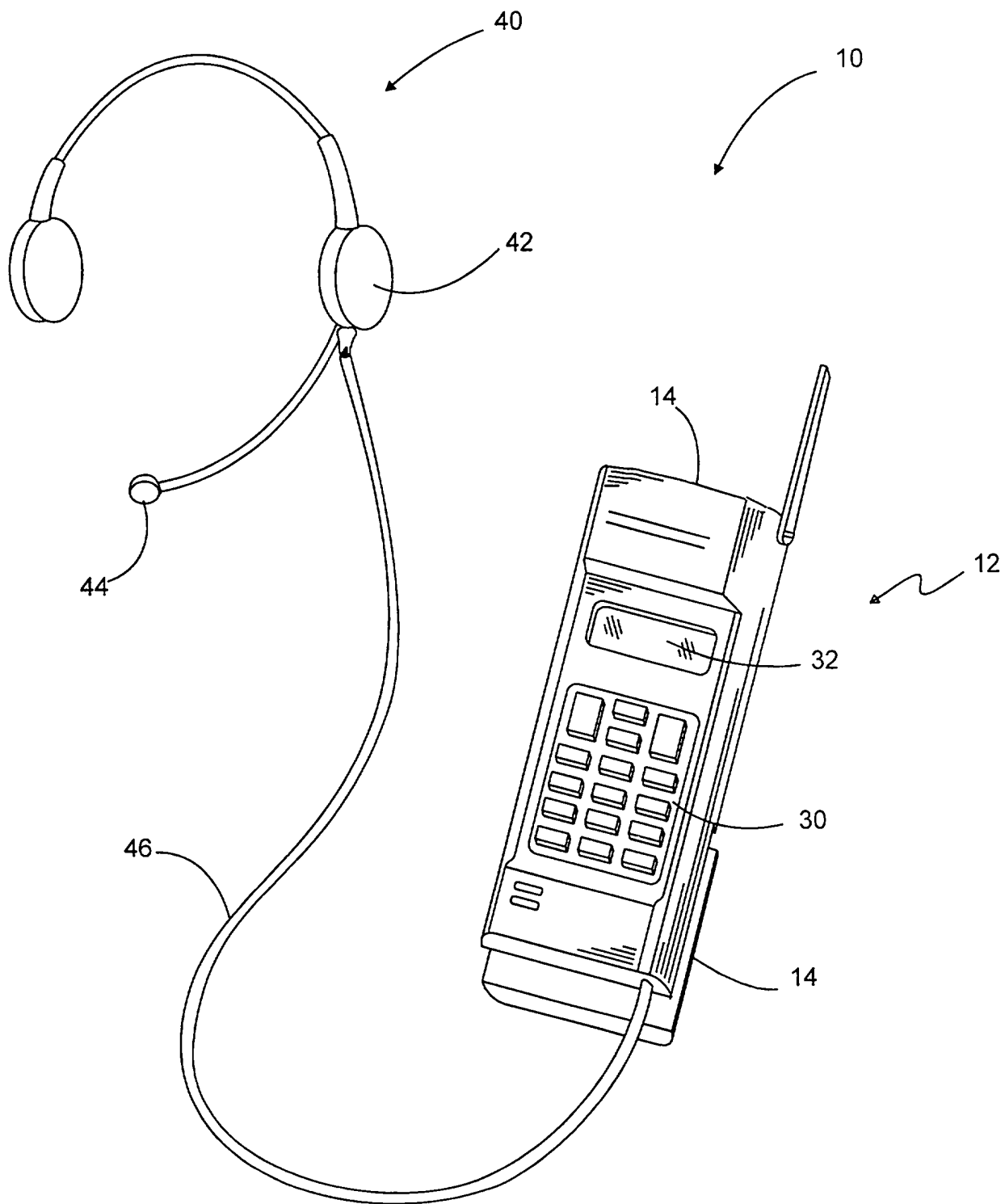


FIG. 4

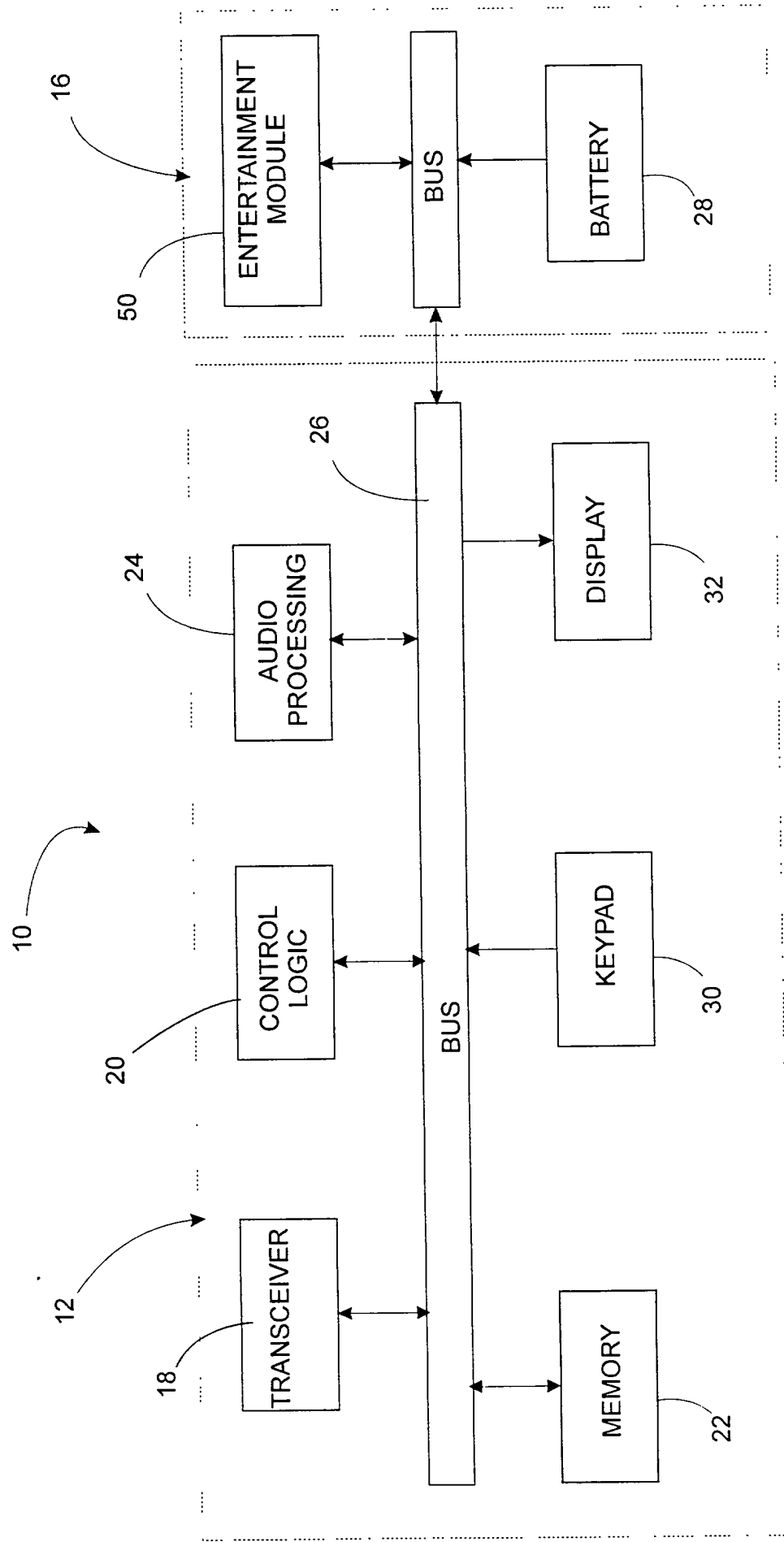


FIG. 5

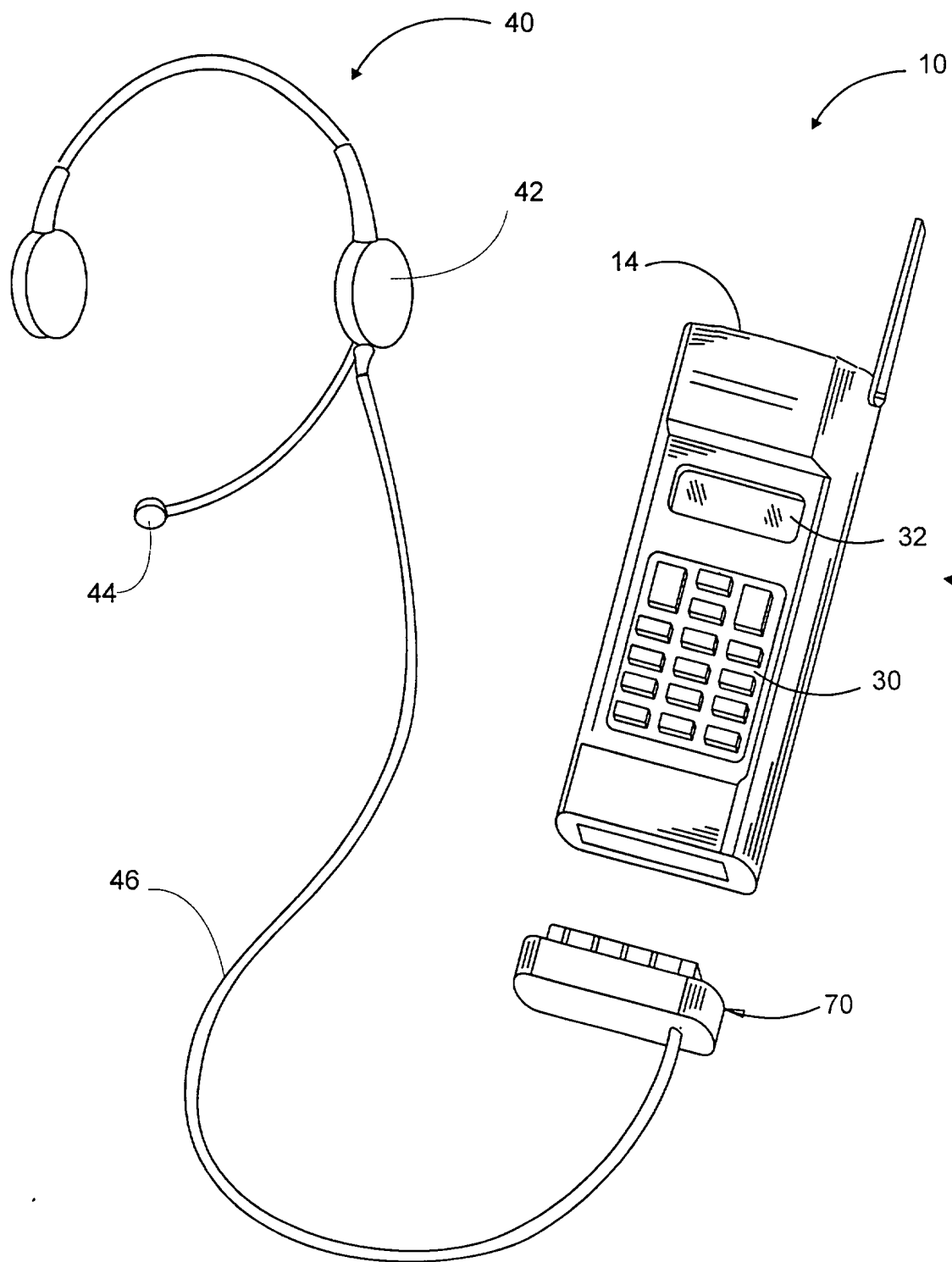


FIG. 6

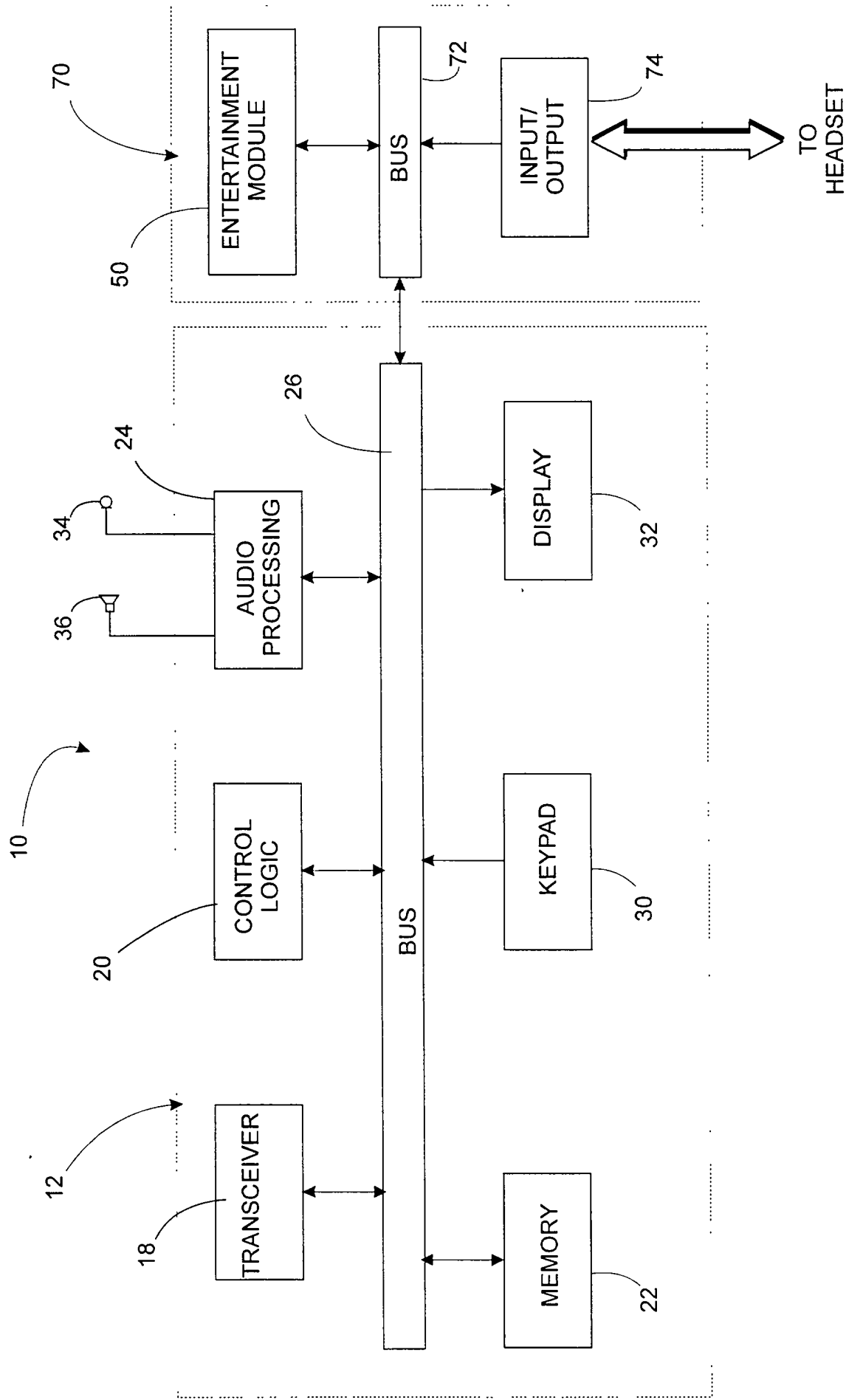


FIG. 7



Attorney Docket Number
P-4015.100/P09204-RMOT

Declaration and Power of Attorney for Patent Application

As below named inventors, we hereby declare that:

Our residences, post office addresses and citizenships are as stated below next to our names,

We believe that we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled **CELLULAR PHONE WITH EXPANSION MEMORY FOR AUDIO AND VIDEO STORAGE**, the specification of which

☐ is attached hereto.

(Check one)

☒ was filed on 2/18/98 as
Application Serial Number 09/025,395
and was amended on _____
(if applicable)

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to us which is material to patentability (as defined in C.F.R. §1.56) in connection with the examination of this application.

We hereby claim foreign benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

<u>NONE</u> (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/> YES	<input type="checkbox"/> NO
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/> YES	<input type="checkbox"/> NO
_____ (Number)	_____ (Country)	_____ (Day/Month/Year Filed)	<input type="checkbox"/> YES	<input type="checkbox"/> NO

Declaration and Power of Attorney for Patent Application

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

NONE

(Application Serial No.)

(Filing Date)

(Status: Patented/Pending/Abandoned)

(Application Serial No.)

(Filing Date)

(Status: Patented/Pending/Abandoned)

Power of Attorney: As named inventors, we hereby appoint the following agents/attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Donald D. Mondul
Registration Number 29,957

Charles L. Moore, Jr.
Registration Number 33,742

David G. Matthews
Registration Number 33,959

David C. Hall
Registration Number 38,904

David K. Purks
Registration Number 40,133

Debra K. Stephens
Registration Number 38,211

James S. Finn
Registration Number 38,450

Larry L. Coats
Registration Number 25,620

David E. Bennett
Registration Number 32,194

Declaration and Power of Attorney for Patent Application

Send Correspondence to: David E. Bennett
RHODES, COATS & BENNETT, L.L.P.
P.O. Box 5
Raleigh, North Carolina 27602

Direct Calls to: David E. Bennett
Telephone: (919) 832-3946
Facsimile: (919) 831-9056

We hereby declare that all statements made herein of our own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code and that such willful false statements may jeopardize the validity of the application or any patent issued thereon.

SOLE OR FIRST INVENTOR:

Full name: Nils R.C. Rydbeck
First Name Middle Name/Initial Last Name
Signature: [Signature] Date: May 11 98
First Name Middle Name Last Name Year-Month-Day

Residence: Cary, North Carolina, USA
City, State, and Country

Citizenship: Sweden

Post Office Address: 202 Rutherglen, Cary, North Carolina 27511

SECOND INVENTOR, IF ANY:

Full name: John P. Fussell
First Name Middle Name/Initial Last Name
Signature: [Signature] Date: 5-7-98
First Name Middle Name Last Name Year-Month-Day

Residence: Raleigh, North Carolina, USA
City, State, and Country

Citizenship: United States

2844 Mathlyn Court 27613
Post Office Address: ~~8704 Master Court~~, Raleigh, North Carolina ~~27615~~

Declaration and Power of Attorney for Patent Application

As below named inventors, we hereby declare that:

Our residences, post office addresses and citizenships are as stated below next to our names,

We believe that we are the original, first and joint inventors of the subject matter which is claimed and for which a patent is sought on the invention entitled **CELLULAR PHONE WITH EXPANSION MEMORY FOR AUDIO AND VIDEO STORAGE**, the specification of which

☒ is attached hereto.

(Check one)

☐ was filed on _____ as
Application Serial Number _____
and was amended on _____
(if applicable)

We hereby state that we have reviewed and understand the contents of the above-identified specification, including the claims, as amended by any amendment referred to above.

We acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to us which is material to patentability (as defined in C.F.R. §1.56) in connection with the examination of this application.

We hereby claim foreign benefits under Title 35, United States Code, §119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed:

Prior Foreign Application(s)

Priority Claimed

NONE			<input type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	YES	NO
			<input type="checkbox"/>	<input type="checkbox"/>
(Number)	(Country)	(Day/Month/Year Filed)	YES	NO

Declaration and Power of Attorney for Patent Application

We hereby claim the benefit under Title 35, United States Code, §120 of any United States application(s) listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, §112, we acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, §1.56(a) which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

NONE		
(Application Serial No.)	(Filing Date)	(Status: Patented/Pending/Abandoned)

(Application Serial No.)	(Filing Date)	(Status: Patented/Pending/Abandoned)

Power of Attorney: As named inventors, we hereby appoint the following agents/attorneys to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

Donald D. Mondul
Registration Number 29,957

Charles L. Moore, Jr.
Registration Number 33,742

David G. Matthews
Registration Number 33,959

David C. Hall
Registration Number 38,904

David K. Purks
Registration Number 40,133

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Registration Number 25,620

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Registration Number 32,194

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SOLE OR FIRST INVENTOR:

Full name: Nils R.C. Rydbeck
First Name Middle Name/Initial Last Name

Signature: _____ Date: _____
First Name Middle Name Last Name Year-Month-Day

Residence: Cary, North Carolina, USA
City, State, and Country

Citizenship: Sweden

Post Office Address: 202 Rutherglen, Cary, North Carolina 27511

SECOND INVENTOR, IF ANY:

Full name: John Fussell
First Name Middle Name/Initial Last Name

Signature: _____ Date: _____
First Name Middle Name Last Name Year-Month-Day

Residence: Raleigh, North Carolina, USA
City, State, and Country

Citizenship: United States

Post Office Address: 8704 Master Court, Raleigh, North Carolina 27615